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(71)Applicant : MEDEI SCI PURANINGU:KK

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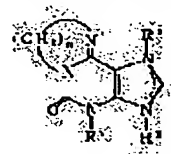
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SAWANISHI HIROYUKI

(54) NEW PURINE DERIVATIVE AND MEDICINAL COMPOSITION COMPRISING THE SAME

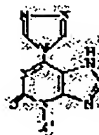
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new purine derivative, having an oxo group and a specific condensed ring group at specified sites, capable of selective inhibiting actions on cyclic adenosine 3',5'-monophosphate (AMP)-specific phosphodiesterases and useful as a bronchodilator or a therapeutic agent for osteopathy.

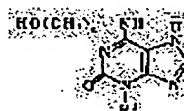
SOLUTION: This compound is represented by formula I [R1 to R3 are each H, a (lower alkyloxy or acyl-substituted) 1-6C alkyl; (n) is 2-4], e.g. 4-propyl-4,5,7,8-tetrahydro-1H-imidazo[1,2-i]purin-5-one. The compound represented by formula is obtained by reacting, e.g. a compound represented by formula II with a compound represented by the formula HO(CH₂)_nNH₂, providing a compound represented by formula III, then reacting the resultant compound with triethylamine and methanesulfonyl chloride, affording a compound represented by formula IV and subsequently reacting the prepared compound with a compound represented by the formula n-R3Br.



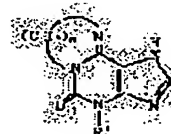
I



II



III



IV

LEGAL STATUS

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22.10.2003

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JP10158267 A
NEW PURINE DERIVATIVE AND
MEDICINAL COMPOSITION
COMPRISING THE SAME
MEDEI SCI PURANINGU:KK

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[loading drawing]

Inventor(s):

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Patents Citing This One (5):

- ✦ US6489331 B1 20021203 Kyowa Hakko Kogyo Co., Ltd.
Remedies for diabetes
- ✦ WO0001388 A1 20000113 KYOWA HAKKO KOGYO CO., LTD.
REMEDIES FOR DIABETES
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FUSED PURINE DERIVATIVES
- ✦ WO2002094321 A1 20021128 TANABE SEIYAKU CO., LTD.
COMPOSITIONS FOR PROMOTING HEALING OF
BONE FRACTURE
- ✦ WO2004011469 A1 20040205 KYOWA HAKKO KOGYO CO., LTD.
CELL DIFFERENTIATION INDUCTOR



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